

4. $0.\overline{02} + 5.\overline{003} + 0.\overline{2} = ?$

(a) $5.\overline{347}$

☒ (b) $5.\overline{247}$

(c) $5.\overline{247}$

(d) $5.\overline{247}$

$5.\overline{247}$

$$\begin{array}{r} 0.02222 \dots \\ + 5.00333 \dots \\ + 0.22222 \dots \\ \hline 5.24777 \dots \\ \hline \end{array}$$

5. $0.34\overline{67} + 0.13\overline{33} = ?$

(a) $0.48\overline{02}$ ~~(b) $0.48\overline{01}$~~

(c) $0.47\overline{02}$ (d) $0.46\overline{01}$

$0.48\overline{01}$

$$\begin{array}{r} 0.34676767 \dots\dots \\ + 0.13333333 \dots\dots \\ \hline 0.48010100 \end{array}$$

6. $3.\overline{36} - 2.\overline{05} + 1.\overline{33} = ?$

(a) $2.\overline{65}$

(c) $2.\overline{46}$

~~(b) $2.\overline{64}$~~

(d) $3.\overline{64}$

$2.\overline{64}$

$$\begin{array}{r} 3.\overline{36} \\ + 1.\overline{33} \\ - 2.\overline{05} \\ \hline \end{array}$$

$2.\overline{64}$

7. $0.\overline{63} + 0.\overline{37} = ?$

(a) $1.\overline{1}$

(c) $1.0\overline{1}$

☒ (b) $1.\overline{01}$

(d) $1.\overline{001}$

$$\begin{array}{r} 0.636363 \dots \\ + 0.373737 \dots \\ \hline 1.010100 \end{array}$$

$1.\overline{01}$

8. $0.\overline{142857} \div 0.\overline{285714} = ?$

(a) 0.4

~~(b) 0.5~~

(c) 0.6

(d) 0.3

$$\frac{142857}{999999} \div \frac{285714}{999999}$$

$\left(\frac{1}{2}\right)$
✓✓

$$\frac{142857}{999999} \times \frac{999999}{285714} = 2$$

9. $5.\overline{76} - 2.\overline{3} = ?$

(a) $3.\overline{44}$

(b) $2.\overline{43}$

☒ (c) $3.\overline{43}$

(d) $2.\overline{45}$

$$\begin{array}{r} 5.767676 \\ - 2.333333 \\ \hline 3.434343 \end{array}$$

10. $\sqrt[3]{0.037} = ?$

(a) $0.\bar{4}$ (b) $0.\bar{1}$

(c) $0.\bar{2}$ (d) $0.\bar{3}$

$$\sqrt[3]{0.037}$$

$$\sqrt[3]{\begin{array}{r} 37 \\ \hline 999 \end{array}} 27$$

* $37 \times 27 = 999$

$$\frac{1}{3} = 0.333... = 0.\bar{3}$$

11. सबसे बड़ा / Greatest no = ?

0.9, 0.9, 0.09, 0.09

Ans

$$0.9 \quad \frac{9}{9} \quad \frac{9}{90} \quad \frac{9}{99}$$

$$0.9 \quad \underline{\underline{1}} \quad \frac{1}{10} \quad \frac{1}{11}$$

Remainder Theorem

शेषफल प्रमेय

$$\frac{95}{13} = \textcircled{4}$$

$$\frac{50+45}{13}$$

$$11+6$$

$$= \frac{17}{13}$$

$$= \textcircled{4}$$

$$\frac{19 \times 5}{13}$$

$$6 \times 5$$

$$= \frac{30}{13}$$

$$= \textcircled{4}$$

Maths by Aditya Patel Sir

Positive & Negative Remainders

$$\frac{77}{13} = 12$$

$$\begin{array}{r} 65 \\ +12 \\ \hline 77 \\ 13 \end{array}$$

Diagram showing 77 divided by 13. An arrow points from 77 to 65 (labeled +12). Another arrow points from 77 to 78 (labeled -1).

$$\frac{77}{13} \leftarrow 78 \text{ } (-1)$$

$$13 - 1 \Rightarrow 12$$

$$\frac{77}{13} \rightarrow \begin{array}{l} +12 \\ -1 \end{array}$$

$$\begin{array}{r} 1024 \\ 1020 \leftarrow -4 \\ \hline 32 \end{array}$$

$$32 - 4 = 28$$

Neg. \rightarrow Pos.

$$\begin{array}{r} 228 \\ \underline{23} \end{array}$$

230
← -2

(21) Ans

$$\begin{array}{r} 1999 \times 2999 \\ \hline \end{array} = ?$$

2000 3000
1975 25 2975

$$+1 \times +1$$

(1) Ans.

$$24 \times 24$$

$$\begin{array}{r} 576 \\ \underline{25} \end{array}$$

(1)

$$\begin{array}{r}
 1701 \times 1702 \times 1703 \\
 \hline
 17 \\
 1 \times 2 \times 3 \\
 \hline
 6
 \end{array}$$

1700

Ans.

$$\begin{array}{r}
 1751 \\
 \swarrow \quad \searrow \\
 1753 \times 1749 \times 71 \\
 \hline
 17 \\
 2 \times (-2) \times 3 \\
 -12 \\
 17 - 12 = 5
 \end{array}$$

Ans.

$$\begin{array}{ccccccc}
 3 & 2 & 3 & 3 & 4 & 2 & 2 \\
 73 \times 37 \times 53 \times 13 \times 39 \times 1352 \times 12 \\
 \hline
 75 & & & 5 & & &
 \end{array}$$

$$\underbrace{+2 \times 2 \times +2 \times +2 \times +1 \times 2 \times 2}$$

$$\frac{64}{5} = \textcircled{4} \text{ Ans.}$$

$$\begin{array}{r}
 \div 5 \\
 1 \\
 2 \\
 \cancel{3} \quad (-2) \\
 \cancel{4} \quad (-1)
 \end{array}$$



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